U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-257 586

Waste Water Disposal at Federal Installations in the United States, State of California

Federal Water Pollution Control Administration, Washington, D C

Jan 68

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PB 257 586

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

January, 1968

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This report has been prepared from the files of the Federal Water Pollution Control Administration. The information has been drawn from the preliminary phases of a nationwide study of wastewater disposal practices at Federal installations. This report summarizes the waste treatment practices at 99 installations, of which 37 are reported as having no known water pollution problems at this time. The distribution indicates the progress in combating water pollution from activities of Federal installations by bringing waste treatment facilities and other pollution control measures up to the standards established in 1966.

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FOREWORD

This report has been prepared from the files of the Federal Water Pollution Control Administration. The information has been drawn from the preliminary phases of a nationwide study of wastewater disposal practices at Federal installations. The ultimate objective of this study is a complete inventory of waste treatment facilities at Federal installations in the United States.

This report summarizes the waste treatment practices at 99 installations, of which 37 are reported as having no known water pollution problems at this time. The General Services Administration has reported that as of June 30, 1966, there were 1,271 Federal installations in California, more than two-thirds of which are under the jurisdiction of the non-defense agencies of the Federal Government.

The following distribution indicates the progress in combating water pollution from activities of Federal installations by bringing waste treatment facilities and other pollution control measures up to the standards established by Executive Order 11288, signed by the President on July 6, 1966. The text of this Order is included in this report.

Present Status of Pollution Control Programs
at 99 Federal Installations in California

No Current Pollution Problems	37
Deactivated and Sold, FY 1968	1
Improvements Programmed for FY 1968	14
Improvements Programmed for FY 1969	15
Improvements Programmed for FY 1970	14
Improvements Programmed for FY 1971	5
Improvements Programmed for FY 1972	2
Improvement Program Date Unknown	5
Preliminary Studies Incomplete	6

The summaries are grouped by agency and arranged alphabetically by county. Dividers separate groupings in the following order:

Department of Defense - Navy
Department of Defense - Army
Department of Defense - Air Force
Corps of Engineers - Civil Works
Civil Agencies

FILE COPY

January 1968

EXECUTIVE ORDER 11288

PREVENTION, CONTROL, AND ABATEMENT OF WATER POLLUTION BY FEDERAL ACTIVITIES

By virtue of the authority vested in me as President of the United States and in furtherance of the purpose and policy of the Federal Water Pollution Control Act, as amended (33 U.S.C. 466), and Reorganization Plan No. 2 of 1966 (31 F.R. 6857), it is ordered as follows:

SECTION 1. *Policy.* The heads of the departments, agencies, and establishments of the Executive Branch of the Government shall provide leadership in the nationwide effort to improve water quality through prevention, control, and abatement of water pollution from Federal Government activities in the United States. In order to achieve these objectives—

(1) Pollution from all existing Federal facilities and buildings shall be controlled in accordance with plans to be submitted to the Director of the Bureau of the Budget pursuant to Section 3 of this order;

(2) New Federal facilities and buildings shall be constructed so as to meet the pollution control standards prescribed by Section 4 of this order;

(3) Pollution caused by all other operations of the Federal Government, such as water resources projects and operations under Federal loans, grants, or contracts, shall be reduced to the lowest level practicable;

(4) Review and surveillance of all such activities shall be maintained to assure that pollution control standards are met on a continuing basis;

(5) The Secretary of the Interior shall, in administering the Federal Water Pollution Control Act, as amended, provide technical advice and assistance to the heads of other departments, agencies, and establishments in connection with their duties and responsibilities under this order;

(6) The head of each department, agency, and establishment shall ensure compliance with Section 11 of the Federal Water Pollution Control Act, as amended (33 U.S.C.. 466h), which, as modified by Reorganization Plan No. 2 of 1966 (31 F.R. 6857), declares it to be the intent of Congress that Federal departments and agencies shall, insofar as practicable and consistent with the interests of the United States and within available appropriations, cooperate with the Secretary of the Interior and with State and interstate agencies and municipalities, in preventing or controlling water pollution; and

(7) Water pollution control needs shall be considered in the initial stages of planning for each new installation or project, and the head of each department, agency, and establishment shall establish appropriate procedures for securing advice and for consulting with the Secretary of the Interior at the earliest feasible stage.

SEC. 2. *Procedures for new Federal facilities and buildings.* (a) A request for funds to defray the cost of designing and constructing new facilities and buildings in the United States shall be included in the annual budget estimates of a department, agency, or establishment only if such request includes funds to defray the costs of such measures as may be necessary to assure that the new facility or building will meet the general standards prescribed by Section 4 of this order.

(b) Prior to any solicitation of bids for construction of any such new facility or building a description of the essential features of the water pollution control and treatment measures proposed for the project shall be submitted to the Secretary of the Interior for prompt review and advice as to the adequacy and effectiveness of the measures proposed and for advice as to any related operating procedures and continuing laboratory examinations deemed necessary to ensure effective plant operation.

SEC. 3. *Procedures for existing Federal facilities and buildings.* (a) In order to facilitate budgeting for corrective and preventive measures, the head of each department, agency, and establishment shall provide for an examination of all existing facilities and buildings under his jurisdiction in the United States and shall develop and present to the Director of the Bureau of the Budget, by July 1, 1966, a phased and orderly plan for installing such improvements as may be needed to prevent water pollution, or abate such water pollution as may exist, with respect to such buildings and facilities. Subsequent revisions needed to keep any such plan up-to-date shall be promptly submitted to the Director of the Bureau of the Budget. Future construction work at each such facility and the expected future use of the facility shall be considered in developing such a plan. Each such plan, and any revisions therein, shall be developed in consultation with the Secretary of the Interior in order to ensure that adoption of the measures proposed thereby will result in the prevention or abatement of water pollution in conformity with the general standards prescribed by Section 4 of this order.

(b) The head of each department, agency, and establishment shall present to the Director of the Bureau of the Budget, by July 1, 1967, and by the first of each fiscal year thereafter, an annual report describing the progress of his department, agency, or establishment in accomplishing the objectives of its pollution abatement plan.

SEC. 4. *General standards.* (a) Federal installations shall provide secondary treatment, or its equivalent, for all wastes except cooling water and fish hatchery effluents. Discharge of wastes into municipal sewerage systems maintaining adequate treatment is hereby declared to be the preferred method of disposal. However, whenever connection to such a system is not feasible, the department, agency, or establishment concerned shall be responsible for installing its own waste treatment system. Upon an application of the head of a department, agency, or establishment, a degree of treatment less than secondary may be approved with respect to an agency-installed system in an exceptional case if the Secretary of the Interior finds that a lesser degree of treatment is adequate to protect the quality of the receiving waters.

(b) If discharge of cooling water is expected to create problems by significantly increasing the temperature of the receiving waters, facilities shall be installed, or operating procedures shall be established, to maintain water temperatures within acceptable limits.

(c) Storage facilities for materials which are hazardous to health and welfare, and for oils, greases, fuels or other materials capable of causing water pollution, if accidentally discharged, shall be located so as to minimize or prevent any spillage which might result in water pollution. Engineering measures to entrap spillage, such as catchment areas, relief vessels, or entrapment-dikes, shall be installed so as to prevent accidental pollution of water.

(d) No waste shall be discharged into waters if it contains any substances in concentrations which are hazardous to health.

(e) No waste shall be discharged into waters if it contains any substances in concentrations which will result in substantial harm to domestic animals, fish, shellfish, or wildlife, if methods of treatment or disposal are available that will remove or render harmless such pollutants. If such methods are not available, but can reasonably be developed, they will be developed and used at the earliest possible date. A determination that such methods are not available or cannot reasonably be developed will not be made without the concurrence of the Secretary of the Interior.

(f) The head of each department, agency, and establishment shall, with respect to each installation in the United States under his jurisdiction, make, or cause to be made, such surveys as may be necessary to ensure that discharges of waste effluents from activities concerned with radioactivity are in accord with the applicable rules, regulations, or requirements of the Atomic Energy Commission (10 CFR, Part 20) and the policies and guidance of the Federal Radiation Council as published in the FEDERAL REGISTER.

(g) Construction and operating plans for waste treatment facilities shall include space for the conduct of necessary laboratory analyses and for the maintenance of records of results thereof whenever the size and complexity of the system makes this necessary.

(h) Construction and operating plans for waste treatment facilities shall take into account water quality standards promulgated pursuant to the provisions of the Water Quality Act of 1965 (79 Stat. 903).

(i) Any waste treatment facilities installed by any department, agency, or establishment shall as far as practicable be constructed so as to conform with any areawide program, meeting criteria established by the Secretary of Housing and Urban Development for a unified or officially coordinated areawide sewer facilities system as part of the comprehensively planned development of the area pursuant to Section 702(c) of the Housing and Urban Development Act of 1965, that may have been adopted with respect to the area concerned.

SEC. 5. *Modification of standards.* The standards prescribed by paragraphs (a) through (e) and (g) through (i) of Section 4 of this order may be supplemented or modified by the Secretary of the Interior, after consultation with the Director of the Bureau of the Budget. All such changes shall be published in the FEDERAL REGISTER.

SEC. 6. *Procedures for Federal water resources projects.* (a) The Secretaries of Agriculture and the Army, the Tennessee Valley Authority, and the United States Section of the International Boundary and Water Commission shall present for the consideration of the Secretary of the Interior any plans that they propose to recommend with respect to the authorization or construction of any Federal water resource development project in the United States. Such plans must be consistent with the general standards prescribed by Section 4 of this order to the fullest extent practicable. The Secretary of the Interior shall review such plans and supporting data relating to water quality, and shall prepare a report to the head of the responsible department, agency, or establishment describing the potential impact of the project on water quality, including recommendations concerning any changes or other measures with respect thereto which he considers to be necessary with respect to the design, construction, and operation of the project.

(b) The report of the Secretary of the Interior shall accompany any report proposing authorization or construction of such a water resource development project. In any case in which the Secretary of the Interior fails to submit a report within 90 days after receipt of project plans, the head of the department, agency, or establishment concerned may propose authorization or construction of the project without such an accompanying report. In any such case, the head of the department, agency, or establishment concerned shall explicitly state in his report concerning the project that the Secretary of the Interior has not reported on the potential impact of the project on water quality.

SEC. 7. *Review of facilities or operations supported by Federal loans, grants, or contracts.* (a) The head of each department, agency, and establishment shall conduct a review of the loan, grant, and contract practices of his organization to determine the extent to which water pollution control standards similar to those set forth in this order for direct Federal operations should be adhered to by borrowers, grantees, or contractors with respect to their operations in the United States. The head of each department, agency, and establishment

shall review all such activities for which there is a significant potential for reduction of water pollution and develop appropriate recommendations for accomplishing such reduction. In conducting this review, necessary technical assistance should be sought from the Secretary of the Interior and the heads of other appropriate Federal agencies. A report on the results of this review shall be submitted to the Director of the Bureau of the Budget by July 1, 1968.

(b) The heads of departments, agencies, and establishments are encouraged to prescribe regulations covering loan, grant, or contract practices designed to reduced water pollution.

SEC. 8. *Study of water pollution from vessel operations.* The Secretary of the Interior shall make a comprehensive study of the problem of water pollution within the United States caused by the operation of vessels, and shall develop such recommendations for corrective or preventive action as may be appropriate, including recommendations with respect to vessels operated by any department, agency, or establishment of the Federal Government. The results of the study and recommendations shall be transmitted to the President by January 1, 1967. The study and report thereon shall be prepared in consultation with, and with the advice and assistance of, the Secretary of Defense, the Secretary of the Treasury, the Secretary of Commerce, and the Secretary of Health, Education, and Welfare.

SEC. 9. *Prior Executive order superseded.* Executive Order No. 11258 of November 17, 1965, is hereby superseded.

LYNDON B. JOHNSON

THE WHITE HOUSE,
July 2, 1966.

[F.R. Doc. 66-7189; Filed, July 5, 1966; 4:48 p.m.]

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UNITED STATES
DEPARTMENT OF THE INTERIOR
FEDERAL WATER POLLUTION CONTROL ADMINISTRATION
WASHINGTON, D.C. 20242

GUIDELINES
for the
PREVENTION, CONTROL, AND ABATEMENT OF WATER POLLUTION
by
FEDERAL ACTIVITIES

July 1967

Executive Order 11288 requires heads of Federal departments, agencies, and establishments to provide the leadership example in the national effort to improve water quality through the prevention, control, and abatement of water pollution from Federal activities in the United States. The Order requires the Secretary of the Interior to provide the necessary review, coordination, and technical advice and assistance to the efforts of the Federal departments, agencies, and establishments which, in turn, are required to cooperate with the Secretary and with State, interstate, and municipal agencies.

Program responsibility for the Secretary's functions has been assigned the Federal Water Pollution Control Administration whose Regional Offices have primary operational responsibility within their respective regions. Regional Office locations and geographic areas of responsibility are listed and mapped herein.

In cases where national security precludes the furnishing or reporting of information as required, the agency concerned should appoint a liaison officer to work with the appropriate Federal Water Pollution Control Administration Regional Director to satisfy the requirements of the Order.

NEW FEDERAL FACILITIES AND BUILDINGS

Plans for water pollution control features in new Federal facilities and buildings require review by the Federal Water Pollution Control Administration to assure conformance with Section 4 of the Order.

1. Responsibility for design, construction, and operation of pollution control works rests with the operating agency. Federal Water Pollution Control Administration Regional Offices will review proposed water pollution control measures required under the Executive Order, will advise the operating agency as to the effectiveness and adequacy of such measures, and will also advise on the adequacy of any related operating procedures and continuing laboratory examinations to ensure effective plant operation.

2. Within thirty days after issuance of these guidelines, and by July 1 of each year thereafter, each agency should provide the Regional Office a list and brief description of all construction projects, new installations or extensions to existing installations which involve new or modified water pollution control measures and facilities and for which planning is underway or is expected to be undertaken during the ensuing 12 months. It is desirable that an annual meeting be held with the Regional Office to discuss proposed projects.

3. For specific projects that generate or treat large or unusual waste loadings, the Federal Water Pollution Control Administration Regional Director may, in addition to the list above referred to, request any of the following prior to any solicitation for construction bids:

   a. engineering report
   b. plans, specifications, and design data
   c. anticipated operation and maintenance procedures
   d. provisions for laboratory facilities and program for laboratory analyses for effluent quality control.

4. Federal Water Pollution Control Administration Regional Offices require a minimum of four weeks (20 working days) to properly complete this review and to assure adequate coordination with regional, State, and local water pollution control agencies as required by Sections 1(6), 4(h), and 4(i) of the Order.

5. Early coordination with the Regional Office as indicated in Section 1(7) of the Order will expedite this procedure.

EXISTING FEDERAL FACILITIES AND BUILDINGS

Section 3 of the Order regarding existing Federal facilities and buildings requires consultation with the Federal Water Pollution Control Administration in developing plans for pollution control and abatement that conform to the general standards prescribed by Section 4 of the Order.

1. Federal Water Pollution Control Administration Regional Offices in cooperation with the responsible agencies will periodically review and/or inspect the water pollution control and abatement measures and facilities at existing Federal activities. Emphasis will be on large or unusual waste loadings. These reviews will be arranged with individual activities at the convenience of all concerned and as far in advance of the actual review as possible.

2. Each agency should inform the Regional Office of the names of officials through whom arrangements for these reviews are to be made. Appropriate procedures will be worked out, as required, to accommodate schedules and work loads.

3. Agencies will be requested to submit periodically to the Federal Water Pollution Control Administration operating data on water pollution control systems for review and comment.

4. A system will be developed for keeping an inventory of the current status of water pollution control and abatement measures and facilities at Federal installations. Forms, procedures, and instructions will be issued in the early future.

GENERAL STANDARDS

Section 4 of the Order sets forth general standards for waste treatment for Federal installations. A further explanation of these general standards follows:

1. Secondary treatment for organic wastes (following primary treatment) is the removal of dissolved and colloidal materials that, in their unaltered state as found in wastewaters, are not amenable to separation through the application of mechanical means and/or gravitational forces. Secondary treatment is generally accomplished through such unit processes as bio-absorption, biological oxidation, wet combustion, other chemical reactions, absorption on surface active media, change of phase, or other processes that result in the removal of colloidal and dissolved organic solids from wastewaters.

2. A degree of treatment greater than secondary may be required in critical water use areas. The Regional Office can provide guidance regarding suitability of various treatment systems. Determinations of suitability by the Regional Office will take into account any applicable State and local water quality standards and requirements. Federal Water Pollution Control Administration Regional Offices will assume primary responsibility for coordinating with regional, State, and local water pollution control agencies.

3. Applications by heads of departments, agencies, or establishments for exceptions to the secondary treatment requirement in Section 4(a) of the Order should include justification for the request. Such applications should be addressed to the Commissioner, Federal Water Pollution Control Administration. Decisions of the Commissioner will be transmitted directly to the head of the agency concerned.

4. Section 4(c) of the Order concerns water pollution from accidental discharge of materials hazardous to health and welfare. In reviewing proposed or existing facilities, Federal

Water Pollution Control Administration Regional Offices may request the responsible agency to report the nature of such materials stored, the type(s) and location(s) of storage facilities, the safeguards against pollution from spillage, and the existing or proposed instructions for handling such materials. The amount of detail requeste will be commensurate with apparent or potential hazards noted during the course of the review.

5. Section 4(g) of the Order requires that "construction and operating plans for waste treatment facilities shall include space for the conduct of necessary laboratory analyses and for the maintenance of records of results thereof, whenever the size and complexity of the system make this necessary." All existing and proposed agency operated treatment systems should adequately meet this requirement through contractual arrangements or by the operation of agency owned laboratory facilities. Advice and consultation will be given by the Regional Office as to the suitability of existing and proposed laboratory facilities or arrangements for analyses by others.

FEDERAL WATER RESOURCES PROJECTS

Section 6 of the Order provides for submission to the Secretary of the Interior of any plans proposing authorization or construction of any Federal water resources development project(s). It requires the Secretary to review such project plans and supporting data as related to water quality and to report on the potential impact thereon. The Secretary's report will include any recommended changes or other measures considered necessary in the design, construction, and operation of the project.

1. Each water resource development agency should advise the Regional Offfice of all proposed water resource development projects as soon as preliminary feasibility studies are completed and continued project planning is indicated. This advice should include a brief description of the proposed project's water storage purposes, including quality management features, in addition to waste handling facilities and laboratory control to be provided.

2. Upon receipt of this advice, the Regional Office will, if desired, meet with the water resource development agency and provide technical advice and guidance concerning pollution control needs, including any proposed waste handling facilities, to be considered in the design, construction, and operation of the project.

3. A water resources development project proposal submitted for interagency review should accurately reflect the project's future impact upon water quality as determined by the Secretary

of the Interior. Thus project plans and supporting data should be submitted to the Federal Water Pollution Control Administration Regional Office as soon as they are sufficiently formulated to permit an accurate assessment of such impact. Project plans and reports should be finalized and submitted for interagency review under procedures established by the Water Resources Council only after the Secretary of the Interior has completed the review and report as required by Section 6 of the Executive Order.

4. The report of the Secretary of the Interior will appraise the water quality control features proposed (including any such features evaluated under Section 3(b) of the Water Pollution Control Act), the project's anticipated impact upon water quality, and the waste handling facilities proposed, and will include all other information and recommendations considered pertinent to the purposes of the Executive Order. It is considered essential that this report be completed sufficiently early in the planning process to assure inclusion of its recommendations in the final project plans and reports as submitted for interagency review.

FEDERAL LOANS, GRANTS, AND CONTRACTS

Section 7 of the Executive Order states that the heads of departments, agencies and establishments are encouraged to prescribe regulations covering loan, grant, or contract practices designed to reduce water pollution.

To achieve this objective, it is recommended that each agency develop appropriate regulations and agreements to assure that its borrowers, grantees and contractors are in compliance with the appropriate water quality standards established by the States and the Secretary of the Interior, and to comply with the other appropriate water pollution control standards established in Section 4 of the Executive Order.

The Federal Water Pollution Control Administration will continue to work with each agency to achieve this objective.

WATER POLLUTION FROM VESSELS

The report, "Wastes from Water Craft" has been prepared. A legislative program to carry out the recommendations of this report is being developed. The Federal Water Pollution Control Administration will continue to provide guidance and technical assistance in preventing water pollution from Federal vessel operation.

SUMMARY OF SUBMISSION REQUIREMENTS

(To be submitted to the Federal Water Pollution Control Administration Regional Offices)

Item	Date Due	Request
1.	Thirty days after issuance of guidelines*	List and brief description of all construction projects, new installations, or extensions to existing installations involving pollution control and abatement measures and facilities for which planning is underway or will be initiated during the next 12 months.
2.	When preliminary feasibility has been determined.	Advice and brief description of proposed water resource development projects when preliminary feasibility has been determined and continued project planning is indicated.

* and by July 1, each year thereafter

UNITED STATES DEPARTMENT OF THE INTERIOR
FEDERAL WATER POLLUTION CONTROL ADMINISTRATION
REGIONAL DIRECTORS

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Regional Director — M. B. Gamet
Great Lakes Region
Federal Water Pollution Control Admin., DI
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Chicago, Illinois 60605

Correspondence pertaining to Federal installations should be addressed: ATTN: FEDERAL ACTIVITIES COORDINATOR

* Extensions listed for Federal Activities Coordinators

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W. C. Galegar
Regional Director
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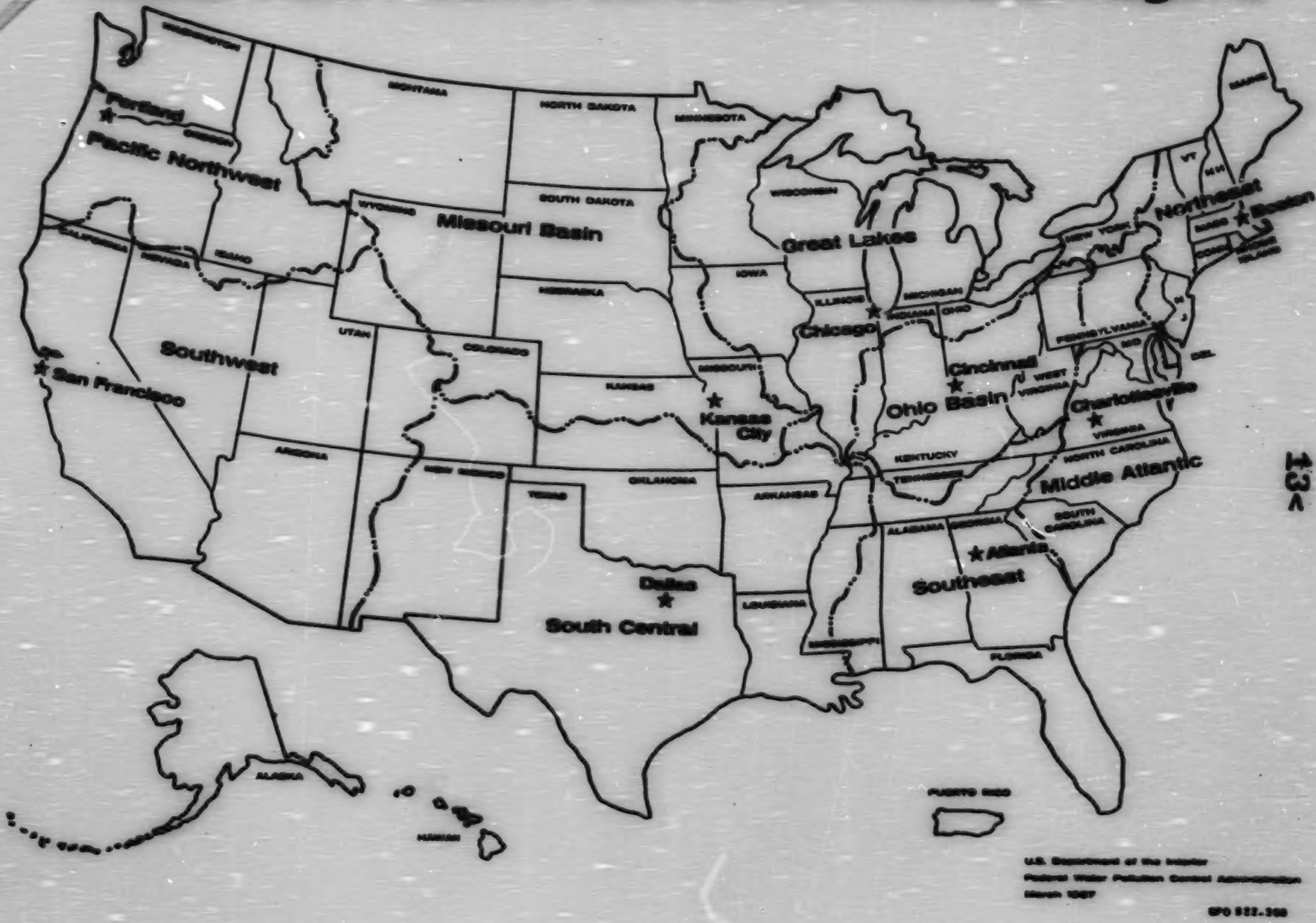
H. S. Hill

For the State of Alaska:

Alaska Water Laboratory
Federal Water Pollution Control Admin., DI
College, Alaska 99701

AC 907 479-2251
M. Mitchell

Federal Water Pollution Control Administration Regions



U.S. Department of the Interior
Federal Water Pollution Control Administration
March 1967

GPO 822-388

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Naval Supply Center, Oakland
Alameda County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

10,000-15,000 gpd waste from washracks followed by grease traps discharged to San Francisco Bay.

Present Status or Proposed Action:

Improvements scheduled with local funds (cost less than $ 10,000) therefore not included in Military Construction Authorization Program.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Naval Air Station, Alameda
Alameda County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

525,000 gpd industrial waste from paint booths, plating shop, aircraft washing, and photo laboratory discharged into San Francisco Bay after passing through oil separators.

Present Status or Proposed Action:

Construction of industrial waste collection and treatment complex proposed for FY 1970. Treated waste then to be discharged into sanitary sewage system.

United States Department of the Interior
Federal Water Pollution Control Administration Washington, D.C. 20240

Naval Weapons Station, Concord
Contra Costa County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

4,500 gpd primary treated and 3,000 gpd untreated domestic sewage from toilets on piers and wharf discharged into San Francisco Bay Tidal Area.

Present Status or Proposed Action:

Construction of secondary sewage treatment plant planned for FY 1969-1970. Also 20,000 gpd effluent from secondary treatment plants at each of three piers and 5,000 gpd secondary treatment plant at wharf planned for FY 1969. Inland area (Port Chicago) connected to Central Contra Costa sanitary district system in December 1967.

United States Department of the Interior
Federal Water Pollution Control Administration Washington, D.C. 20240

Naval Fuel Depot, Point Molate
Richmond, Contra Costa County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

6,000 gpd domestic sewage discharged into San Francisco Bay after primary treatment in Imhoff tank and three septic systems. Other septic tanks discharge to subsurface soil absorption fields.

Present Status or Proposed Action:

Construction proposed for FY 1969-1970 includes system to carry septic tank effluents to treatment plant which will be expanded to provide secondary treatment with chlorination.

STATE OF CALIFORNIA

Naval Air Station Auxiliary, El Centro
Imperial County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

300,000 gpd domestic and industrial waste discharged to raw sewage lagoons, overflow from which goes to New River.

Present Status or Proposed Action:

No pollution problem.

United States Department of the Interior
Federal Water Pollution Control Administration Washington, D.C. 20240

STATE OF CALIFORNIA

Navy Petroleum Reserves in California
Tupman, Kern County
Department of Defense - Navy

January, 1968

Type of Discharge and Present Treatment:

10,000 gpd effluent from domestic sewage discharged into soil-absorption system. 1.2 mgd brackish water disposed of into deep wells and percolation and evaporation beds.

Present Status or Proposed Action:

Present disposal systems satisfy Federal, State and Local regulations.

United States Department of the Interior
Federal Water Pollution Control Administration Washington, D.C. 20240

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Ordnance Test Station, China Lake
Kern County
Department of Defense - Navy

January, 1968

Type of Discharge and Present Treatment:

1.35 million gpd domestic sewage is treated and discharged to irrigation and percolation or evaporation. 300,000 gpd industrial waste discharged to ditches and dispersed by evaporation.

Present Status or Proposed Action:

No pollution problem exists.

United States Department of the Interior
Federal Water Pollution Control Administration Washington, D.C. 20240

Naval Air Station, Lemoore
Kings County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

600,000 gpd domestic wastewater with excessive dissolved solids (from infiltration) and boron (2.0 mg/l) discharged into Kings River after secondary treatment.

100,000 to 600,000 gpd storm drainage runoff with high mineral content drains into Kings River.

Present Status or Proposed Action:

Construction of lagoons and evaporation ponds to eliminate the domestic waste discharge into Kings River proposed for FY 1970. Connection of existing runoff drainage to a master drain proposed for FY 1970.

Naval Station, Long Beach
Los Angeles County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

200,000 gpd domestic sewage discharged into City of Los Angeles sewers. Had breakdowns of worn pumping equipment allowing up to 80,000 gpd untreated waste to be discharged into Long Beach Harbor. New pumps installed November 1967. No breakdowns reported through January 1968.

2,000 gpd domestic sewage from pier area treated in septic tanks and discharged into Long Beach Harbor.

Present Status or Proposed Action:

Construction of sewer system improvements programmed for FY 1969-1970. Collection system for pier areas programmed for FY 1969. (Originally for FY 1969, will now probably slip to FY 1970.)

Fuel Supply Depot, San Pedro
Los Angeles County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

3,000 gpd domestic waste discharged to Los Angeles City sewer system. Industrial waste is created by water ballast containing "black oil" which passes through industrial waste and fuel oil reclamation plant.

Present Status or Proposed Action:

No pollution problem.

STATE OF CALIFORNIA

Naval Industrial Reserve Facility
Todd Shipyard
San Pedro, Los Angeles County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

50,000 gpd domestic waste discharged to the Los Angeles municipal sewer system.

50,000 gpd primary treated domestic waste discharged into West Basin, Los Angeles Harbor.

100,000 gpd cooling water and unknown quantity of chemical waste discharged into West Basin.

Permits in each case have been issued by Los Angeles City Health Department.

Present Status or Proposed Action:

Extent of pollution, if any, presently undetermined.

United States Department of the Interior
Federal Water Pollution Control Administration Washington, D.C. 20240

STATE OF CALIFORNIA

Naval Ordnance Test Station, Pasadena Annex
San Clemente Island, Los Angeles County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

10,000 gpd domestic sewage discharged into the Pacific Ocean from the headquarters area, San Clemente Island.

Present Status or Proposed Action:

Secondary domestic sewage treatment plant programmed for FY 1970-1971.

United States Department of the Interior
Federal Water Pollution Control Administration Washington, D.C. 20240

STATE OF CALIFORNIA

Naval Shipyard, Long Beach
Los Angeles County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

220,000 gpd domestic sewage discharged to Los Angeles City sewer system. Occasional breakdown or overload causes overflow into the West Basin of Long Beach Harbor.

Present Status or Proposed Action:

Contract has been let for design of the improvement of the sanitary sewer system. Construction funds included in Military Construction Appropriation, FY 1968.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

El Toro Marine Base
Orange County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

1,200,000 gpd sewage receives secondary treatment with post chlorination. Unknown quantity of industrial waste discharged to San Diego creek with skimming only.

Present Status or Proposed Action:

Will need to program for construction of industrial waste treatment facilities.

United States Department of the Interior
Federal Water Pollution Control Administration Washington, D.C. 20240

Naval Weapons Station, Seal Beach
Orange County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

140,000 gpd primary treated domestic sewage discharged to Anaheim Bay after chlorination.

Present Status or Proposed Action:

Construction of sewer system to connect to one of three nearby municipal sewerage systems is programmed for FY 1970.

United States Department of the Interior
Federal Water Pollution Control Administration Washington, D.C. 20240

STATE OF CALIFORNIA

Naval Ordnance Laboratory, Corona
Riverside County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

300,000 gpd secondary treated and chlorinated domestic sewage and industrial wastes discharged into the Santa Ana River Basin. (Navy treatment facilities also serve the State of California Rehabilitation Center.)

Present Status or Proposed Action:

Construction of new headworks programmed for FY 1969 using maintenance funds. Alteration of operating procedures and repair of existing units to be accomplished as funds become available in FY 1968-1969.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Marine Corps Supply Center - YERMO
Barstow, San Bernardino County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

298,000 gpd domestic sewage discharged to an oxidation pond. 45,000 gpd untreated industrial waste evaporated in concrete lined ponds.

Present Status or Proposed Action:

No pollution problem.

United States Department of the Interior
Federal Water Pollution Control Administration Washington, D.C. 20240

STATE OF CALIFORNIA

Marine Corps Supply Center - NEBO
Barstow, San Bernardino County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

646,000 gpd domestic sewage and 5,000 gpd industrial waste treated and discharged to evaporation-percolation ponds.

Present Status or Proposed Action:

No pollution problem.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Marine Corps Base, Twentynine Palms
San Bernardino County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

827,000 gpd domestic sewage given primary treatment and used in base irrigation system.

Present Status or Proposed Action:

Construction of stabilization ponds and chlorination programmed for FY 1970.

United States Department of the Interior
Federal Water Pollution Control Administration Washington, D.C. 20240

North Island Naval Air Station
San Diego County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

Domestic sewage discharged to City of San Diego sewage system. 350,000 gpd inadequately treated industrial waste discharged into San Diego Bay.

Present Status or Proposed Action:

Funds for construction of collection system to divert part of the industrial waste to sanitary sewer system included in FY 1968 Military Construction Appropriation. Engineering studies on best treatment method for treating remaining industrial wastes were begun in 1967. Engineering funds are programmed for FY 1969 with construction in FY 1970.

Naval Amphibious Base
Coronado, San Diego County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

200,000 gpd domestic sewage discharged to City of San Diego sewage system. Industrial waste from equipment wash racks flows through grease traps and is discharged into San Diego Bay.

Present Status or Proposed Action:

Extent of pollution, if any, from industrial waste is presently undetermined.

STATE OF CALIFORNIA

Camp Pendleton Marine Corps Base
San Diego County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

3,300,000 gpd domestic waste provided secondary treatment at 13 separate plants. Effluent discharged to various spreading areas for groundwater recharge, to a recreation lake and is used for irrigation. No waste effluent is discharged off the Government reservation.

Present Status or Proposed Action:

No change is proposed at this time.

United States Department of the Interior
Federal Water Pollution Control Administration Washington, D.C. 20240

Naval Air Station - Miramar
Miramar, San Diego County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

100,000 gpd domestic sewage discharged into the City of San Diego sewage system. 25,000 gpd untreated industrial wastes discharged to normally dry bed of Rose Canyon Creek.

Present Status or Proposed Action:

Construction of system to collect and carry industrial waste to sanitary sewer system programmed for FY 1968.

STATE OF CALIFORNIA

Navy Public Works Center
San Diego County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

160,000 gpd primary treated and chlorinated domestic sewage discharged into the Oneonta Lagoon. The Regional Water Quality Control Board recommends prohibition of any sewage discharge into the lagoon.

Present Status or Proposed Action:

Construction of pumping station and force main to carry discharges to nearby municipal sewerage systems proposed for FY 1969.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Naval Station CNO
San Diego County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

350,000 gpd domestic sewage discharged to City of San Diego sewer system.

Present Status or Proposed Action:

No pollution problem.

United States Department of the Interior
eral Water Pollution Control Administration Washington, D.C. 20240

Naval Training Center
San Diego County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

900,000 gpd domestic sewage discharged into City of San Diego sewer system.

Present Status or Proposed Action:

No pollution problem.

Naval Reserve Shipyard
Bethlehem Steel Company
San Francisco County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

153,000 gpd untreated domestic sewage discharged into San Francisco Bay during full operation.

Present Status or Proposed Action:

No longer a Federal Installation. Sold to San Francisco Port Authority by GSA, November 13, 1967.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Naval Station, Treasure Island
San Francisco Bay

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

a. Treasure Island - 900,000 gpd primary treated and chlorinated sewage discharged into San Francisco Bay.

b. Yerba Buena Island - 20,000 gpd primary treated and chlorinated sewage discharged into San Francisco Bay.

Present Status or Action Proposed:

a. Funds for secondary sewage treatment plant (2,000,000 gpd capacity) for Treasure Island included in FY 1968 Military Construction Appropriations.

b. Secondary sewage plant for Yerba Buena Island programmed for FY 1971.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

San Francisco Bay Naval Shipyard, Hunter's Point
San Francisco County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

Overflow of combined storm-domestic wastes discharged into San Francisco Bay during wet weather. Some proportion of 75,000 gpd untreated industrial wastes discharged into San Francisco Bay.

Present Status and Proposed Action:

Quantities and corrective measures under study. Construction of separate storm and sanitary sewage collection systems and sewers, pump stations and treatment facilities for industrial wastes programmed for FY 1970.

United States Department of the Interior
eral Water Pollution Control Administration Washington, D.C. 20240

Waste Water Disposal at Federal Installations in the United States
STATE OF CALIFORNIA

Naval Communication Station
Stockton, San Joaquin County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

250,000 gpd primary treated domestic waste with post chlorination discharged into Burns Cut-off.

Present Status or Proposed Action:

Construction of secondary treatment plant programmed for FY 1971.

United States Department of the Interior
eral Water Pollution Control Administration Washington, D.C. 20240

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Naval Air Station
Moffett Field, Santa Clara County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

353,000 gpd primary treated domestic sewage discharged into San Francisco Bay. Untreated industrial waste discharged to San Francisco Bay. (Waste found by bio-assay to be non-toxic.)

Present Status or Proposed Action:

Funds for connection of sewer system to City of Sunnyvale sewerage system (upon completion of city's secondary treatment facilities now under construction) are included in FY 1968 Military Construction Appropriation.

United States Department of the Interior
eral Water Pollution Control Administration Washington, D.C. 20240

STATE OF CALIFORNIA

San Francisco Naval Shipyard, Mare Island
Solano County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

1,600,000 gpd domestic sewage receives primary treatment before discharge into San Pablo Bay. During heavy rains some untreated sewage overflows from combined sewer system into Mare Island Strait.

Part of 150,000 gpd untreated industrial waste discharged into sanitary sewer system and part into Mare Island Strait.

Present Status or Proposed Action:

Quantities and corrective actions under study. Construction of secondary sanitary waste treatment plant with chlorination programmed for FY 1969. Construction of industrial waste collection and treatment system programmed for FY 1970. (There has been some program slippage because of construction cost escalation.)

STATE OF CALIFORNIA

Naval Security Group Activity, Skaggs Island
Sonoma County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

130,000 gpd primary treated and chlorinated domestic sewage discharged into Second Napa Slough.

Present Status or Proposed Action:

Construction of secondary treatment facilities programmed for FY 1970.

Waste Water Disposal at Federal Installations in the United States
STATE OF CALIFORNIA

Pacific Missile Range, Point Mugu
Ventura County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

360,000 gpd main base domestic waste provided sedimentation followed by oxidation and polishing ponds with discharge to Mugu lagoon. (Equivalent to high level of secondary treatment.)

40,000 gpd from Beach Officers' Club and Transportation areas treated in six septic tanks with effluent discharged to West Mugu lagoon.

Present Status or Proposed Action:

Construction of sewer system to divert effluent to installation's main sewage treatment plant programmed for FY 1969.

United States Department of the Interior
eral Water Pollution Control Administration Washington, D.C. 20240

Naval Construction Battalion Center, Port Hueneme
Ventura County

January, 1968

Department of Defense - Navy

Type of Discharge and Present Treatment:

700,000 gpd primary treated domestic sewage chlorinated and discharged into the Pacific Ocean at Port Hueneme Harbor.

100,000 gpd industrial waste industrial waste discharged into Port Hueneme Harbor.

Present Status or Proposed Action:

Construction of sewer system to connect to one of two nearby municipal sewer systems programmed for FY 1970.

Construction of industrial waste treatment facilities programmed for FY 1971.

STATE OF CALIFORNIA

Oakland Army Base
Oakland, Alameda County

January, 1968

Department of Defense - Army

Type of Discharge and Present Treatment:

500 gpd wastewater from vehicle wash rack (Bldg 1073) discharged into San Francisco Bay through storm drain after passing through grease and sediment traps.

Present Status or Proposed Action:

Pollution problem undetermined at present.

United States Department of the Interior
Federal Water Pollution Control Administration Washington, D.C. 20240

STATE OF CALIFORNIA

Camp Roberts
Monterey County

January, 1968

Department of Defense - Army

Type of Discharge and Present Treatment:

Secondary waste treatment plant discharges chlorinated effluent to spreading beds near Salinas River. Camp is used primarily for summer reserves and training. Some individual septic tank systems in remote areas. Treatment facilities more than adequate.

Present Status or Proposed Action:

No pollution problem.

STATE OF CALIFORNIA

Fort Ord
Monterey County

January, 1968

Department of Defense - Army

Type of Discharge and Present Treatment:

2,577,000 gpd effluent from waste treatment plant by-passes clogged percolation beds to a storm drain which discharges onto the beach at Monterey Bay.

Present Status or Proposed Action:

Modifications to the plant and method of treatment underway. Feasibilities (1) returning percolation beds to use, or (2) requirement for deep water ocean outfall are under study.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Hunter Liggett Military Reservation
King City, Monterey County

January, 1968

Department of Defense - Army

Type of Discharge and Present Treatment:

10,000 gpd effluent from Imhoff tank discharged to oxidation lagoons. Effluent does not leave the military reservation.

Present Status or Proposed Action:

Presently no pollution problem. Planned expansion of installation includes complex of new permanent buildings which will require new sewage treatment plant. Programmed for FY 1969.

United States Department of the Interior
eral Water Pollution Control Administration Washington, D.C. 20240

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Sacramento Signal Depot
Sacramento County

January, 1968

Department of Defense - Army

Type of Discharge and Present Treatment:

150,000 gpd domestic sewage receives secondary treatment and 62,000 gpd untreated industrial waste held in oxidation ponds which are discharged periodically into Morrison Creek.

Present Status or Proposed Action:

Extent of pollution, if any, undetermined at present.

United States Department of the Interior
'eral Water Pollution Control Administration Washington, D.C. 20240

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Fort Irwin
San Bernardino County

January, 1968

Department of Defense - Army

Type of Discharge and Present Treatment:

400,000 gpd primary treated domestic sewage followed by oxidation ponds discharged to irrigation of golf course or evaporated (this is equivalent to secondary treatment). Effluent does not leave the military reservation. Waste water from vehicle washing discharged to storm sewers or desert where it evaporates.

Present Status or Proposed Action:

Funds for replacement and enlargement of portions of the sewage collection system and storm drainage system proposed by the Army are included in FY 1968 Military Construction Appropriation. Construction will not affect waste treatment facilities.

United States Department of the Interior
eral Water Pollution Control Administration Washington, D.C. 20240

STATE OF CALIFORNIA

Presido of San Francisco
San Francisco County

January, 1968

Department of Defense - Army

Type of Discharge and Present Treatment:

All wastes are discharged to City of San Francisco sewers. City provides primary treatment followed by chlorination with discharge to deep water in San Francisco Bay.

Present Status or Proposed Action:

No control by Army of waste treatment and effluent disposal facilities provided by the City and County of San Francisco.

United States Department of the Interior
eral Water Pollution Control Administration Washington, D.C. 20240

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Sharpe General Depot
San Joaquin County

January, 1968

Department of Defense - Army

Type of Discharge and Present Treatment:

140,000 gpd chlorinated effluent from secondary domestic sewage treatment plant flows to French Camp Drain and thence to San Joaquin River.

75,000 gpd industrial waste treated and discharged into oxidation ponds with overflow to French Camp Drain.

Present Status and Proposed Action:

Additional industrial waste treatment facilities and centralization of industrial waste treatment for proposed new depot facilities is in design stage.

United States Department of the Interior
eral Water Pollution Control Administration Washington, D.C. 20240

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Two Rock Ranch Station
Petaluma, Sonoma County

January, 1968

Department of Defense - Army

Type of Discharge and Present Treatment:

Effluent from Imhoff tank with oxidation ponds and chlorine contact tank discharged into South Branch of Stemple Creek and also used, after chlorination, for watering grass.

Present Status or Proposed Action:

No pollution problem.

United States Department of the Interior
'eral Water Pollution Control Administration Washington, D.C. 20240

STATE OF CALIFORNIA

Klamath Air Force Station
Requa, Del Norte County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

29,000 gpd primary treated domestic sewage and 100 gpd industrial waste discharged into Pacific Ocean.

Present Status or Proposed Action:

Construction of secondary treatment plant for both sanitary and industrial waste planned for FY 1969-1970.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Edwards Air Force Base
Rosamund, Kern County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

Main Base: 800,000 gpd domestic wastewater treated and discharged to evaporation on dry lake.

Rocket Test Site: Domestic and industrial wastes treated and discharged to evaporation ponds.

Present Status or Proposed Action:

No pollution problem.

United States Department of the Interior
eral Water Pollution Control Administration Washington, D.C. 20240

STATE OF CALIFORNIA

Mill Valley Air Force Station
Marin County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

17,000 gpd domestic sewage effluent with secondary treatment and chlorination discharged to spray field within the Marin Municipal Water District watershed. No known actual discharge to district reservoir.

Present Status or Proposed Action:

Improvements consisting of intermittent sand filters to present treatment plant and construction of larger spray fields programmed for FY 1968. Plans reviewed by FWPCA, July 1967. Funds included in FY 1968 Military Construction Appropriation.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Hamilton Air Force Base
Marin County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

350,000 gpd effluent from primary sewage treatment plant discharged into San Pablo Bay. 450,000 gpd domestic sewage to Novato Sewer District #6.

Present Status or Proposed Action:

Funds for construction of secondary sewage treatment plant with chlorination included in FY 1967 Military Construction Appropriation. Construction scheduled for completion in 1968. Design of industrial waste treatment facilities completed in 1967. Construction funds included in FY 1968 Military Construction Appropriation.

United States Department of the Interior
Federal Water Pollution Control Administration Washington, D.C. 20240

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Point Arena Air Force Station
Mendocino County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

17,000 gpd effluent from septic tank in family housing area discharged to tile drain field. Some effluent surfaces in forest area. Waste from military cantonment area treated by extended aeration plant.

Present Status or Proposed Action:

Funds for construction of secondary sewage treatment facilities for family housing area included in FY 1968 Military Construction Appropriation. Chlorination to be added to cantonment area treatment plant as soon as maintenence funds are available in FY 1968.

United States Department of the Interior
Federal Water Pollution Control Administration Washington, D.C. 20240

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

McClellan Air Force Base
Sacramento County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

1,115,000 gpd secondary treated and chlorinated domestic waste discharged into Magpie Creek.

440,000 gpd industrial waste treated and discharged into Magpie Creek. Storm drains discharge into Second, Magpie, and Arcade Creeks.

Present Status or Proposed Action:

Construction of phenolic treatment plant, alterations to industrial waste plant, and increased oil separation in storm drains proposed for FY 1969-1970.

United States Department of the Interior
Federal Water Pollution Control Administration Washington, D.C. 20240

STATE OF CALIFORNIA

Mather Air Force Base
Sacramento County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

1,200,000 gpd domestic sewage receives adequate secondary treatment and chlorination. Undetermined quantity of industrial waste flows through oil skimming device in main drainage ditch leading to Morrison Creek.

Present Status or Proposed Action:

$ 75,000 for construction of treatment facilities for industrial waste included in FY 1968 Military Construction Appropriation. Current estimates indicate that between $ 223,000-$ 418,000 will be required for complete correction. Will require programming for FY 1972 or later.

North Highlands (ANG)
North Sacramento, Sacramento County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

12,000 gpd domestic sewage treated in septic tanks with leach fields.

Present Status or Proposed Action:

Construction of sewer line system to connect with City of Sacramento sewage system programmed for FY 1969.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Norton Air Force Base
San Bernardino County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

1,000,000 gpd domestic waste discharged untreated into City of San Bernardino sewers. City provides secondary treatment with effluent spread for groundwater recharge.

50,000 gpd industrial wastes collected and treated in Air Force facilities to remove heavy metals, oils, and greases, followed to a pH adjustment. Effluent discharged to dry Santa Ana River bed for disposal by percolation.

Present Status or Proposed Action:

Industrial waste treatment facilities to serve photographic laboratory under construction, expected to be operational in mid-1968.

60,000 gpd of sodium thiosulphate waste will be discharged to sanitary sewer after chlorine demand has been satisfied. Remainder of waste (8,000 gpd) is uneconomical to treat and will be trucked to a non-reclaimable industrial wastewater sewer (Chino Basin Municipal Sewer District) discharging into the Pacific Ocean.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

George Air Force Base
San Bernardino County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

940,000 gpd domestic sewage receives secondary treatment and drains to oxidation ponds where portion is used for golf course irrigation , and remainder is percolated into ground in an unlined canal which also disposes of storm drainage.

30,000 gpd untreated waste from one aircraft washrack discharged to unlined canal for percolation.

Present Status or Proposed Action:

Construction of additional oxidation ponds for the domestic sewage system to increase evaporation disposal is programmed for FY 1969 (slipped from FY 1968). Construction of oil separators at washracks, fueling areas, and maintenance areas, with connection to the sanitary sewer programmed for FY 1969-1971.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Ontario International Airport (ANG)
San Bernardino County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

10,000 gpd domestic sewage treated in septic tanks and leaching field which at present satifies city standards.

Present Status or Proposed Action:

Construction of sewer system to connect to City of Ontario sewer main programmed for FY 1969.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Mount Laguna Air Force Station
San Diego County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

22,000 gpd domestic waste treated by septic tank system and discharged to desert areas. Smaller septic tanks in remote areas discharge to ground.

Present Status or Proposed Action:

Repair to septic tank system under construction.

Complete treatment plant programmed for FY 1969.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Air Force Plant #19
San Diego County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

200,000 gpd domestic sewage and industrial waste discharged into City of San Diego sewage system.

Present Status or Proposed Action:

No pollution problem.

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Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Sycamore Test Site
General Dynamics Plant #71
San Diego County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

7,500 gpd domestic sewage treated by septic tank and subsurface soil-absorption system. 65,000 gpd industrial waste treated and discharged into the dry bed of Sycamore Canyon Creek.

Present Status or Proposed Action:

No pollution problem.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Cambria Air Force Station
San Luis Obispo County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

15,000 gpd domestic waste with primary treatment discharged to Pacific Ocean from cantonment area.

9,000 gpd domestic waste with extended aeration treatment followed by intermittent sand filters and chlorination is discharged to Santa Rosa Creek.

Present Status or Proposed Action:

Construction of secondary treatment plant for cantonment area programmed for FY 1969.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Vandenberg Air Force Base
Santa Barbara County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

1,250,000 gpd secondary treated domestic waste discharged alternately to leaching ponds near Santa Ynez River to replenish water barrier against salt water intrusion and directly to the Pacific Ocean. Remote areas served by septic tanks and leaching pits.

Present Status or Proposed Action:

Construction of relief sewers, a new ocean outfall, and remote site treatment plants programmed for FY 1968-1972.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Almaden Air Force Station
Santa Clara County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

25,000 gpd domestic waste effluent from septic tanks in cantonment area discharged to oxidation ponds with spray fields near but not within local domestic water supply watershed.

3,500 gpd domestic waste effluent from septic tanks in operations area discharged to leaching fields on local domestic water supply watershed.

Present Status or Action Proposed:

Funds for construction of secondary treatment plant with enlarged oxidation ponds to discharge into a spray field located outside the local domestic water supply watershed included in FY 1968 Military Construction Appropriation. Project included intercepting wastes from operations area and combining with cantonment area wastes for secondary treatment.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Travis Air Force Base
Solano County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

1,675,000 gpd domestic waste treated in two secondary treatment plants and discharged to Union Creek.

250,000 gpd partially treated industrial waste discharged to Union Creek.

Present Status or Action Proposed:

Funds for additions and improvements to existing main sewage plant included in FY 1968 Military Construction Appropriation. Construction of industrial waste collection and treatment system programmed for FY 1969.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Red Bluff Air Force Station
Tehama County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

12,000 gpd effluent from secondary treatment plant with chlorination discharged into an irrigation ditch.

Present Status or Action Proposed:

No pollution problem

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Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

January, 1968

Air Force Plant #64 (LOX)
Gas Industries, Inc.
Chatsworth, Ventura County

(Jan. 1968)

Department of Defense - Air Force

Type of Discharge and Present Treatment:

200 to 500 gpd domestic sewage treated and discharged to soil-absorption system. 3500 gpd industrial waste sprayed on ground surface after oil is separated.

Present Status or Action Proposed:

No pollution problem.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Beale Air Force Base
Yuba County

January, 1968

Department of Defense - Air Force

Type of Discharge and Present Treatment:

1,200,000 gpd domestic waste and primary treated aircraft wash waste is given secondary treatment followed by chlorination and discharged into Hutchinson Creek. Aircraft wash waste is passed through an oil separator.

108,000 gpd photographic laboratory waste, treated by sedimentation, pH adjustment and filtration is pumped into deep wells, penetrating a saline aquifer, for disposal.

Present Status or Proposed Action:

Continued improvement in operations and testing proposed for both domestic and photographic laboratory waste treatment and disposal facilities. Southwest Region FWPCA and State of California Central Valley Regional Water Quality Control Board are maintaining close surveillance of photographic laboratory waste disposal for possible effects on local fresh water aquifers.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Hansen Flood Control Basin Recreation Area
Los Angeles County

January, 1968

Department of Defense - Corps of Engineers, Civil

Type of Discharge and Present Treatment:

7,600 gpd domestic wastes and contents of chemical toilets discharged to the City of Los Angeles sewerage system.

Present Status or Proposed Action:

No pollution problem.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Sepulveda Flood Control Basin
Van Nuys, Los Angeles County

January, 1968

Department of Defense - Corps of Engineers, Civil

Type of Discharge and Present Treatment:

12,600 gpd domestic sewage and contents of chemical toilets discharged to City of Los Angeles sewerage system. Effluent from one septic tank absorbed in leaching field.

Present Status or Proposed Action:

No pollution problem.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Whittier Narrows Flood Control Basin
El Monte, Los Angeles County

January, 1968

Department of Defense - Corps of Engineers, Civil

Type of Discharge and Present Treatment:

9,000 gpd domestic sewage and contents of chemical toilets discharged to Los Angeles County sewerage system. 9,500 gpd effluent from septic tanks absorbed in leaching fields.

Present Status or Proposed Action:

No pollution problem.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Corps of Engineers Operations Base
Sausalito, Marin County

January, 1968

Department of Defense - Corps of Engineers, Civil

Type of Discharge and Present Treatment:

1,000 gpd domestic sewage from the Operations Base discharged into the Sausalito sewerage system.

1,600 gpd untreated domestic sewage from dredges operating in San Francisco Bay discharged into the Bay.

Present Status or Proposed Action:

Macerator-chlorinator units are installed or programmed for work boats operating out of the Sausalito Base. Hopper dredges working in San Francisco Bay will continue to discharge untreated domestic waste to the Bay pending evaluation of waste treatment plant installed on dredge "Biddle" in January 1968. These hopper dredges under jurisdiction of the Portland District Engineer, Portland, Oregon.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Big Flat Area Camp Grounds
Six Rivers National Forest, Del Norte County — January, 1968

Agriculture - Forest Service

Type of Discharge and Present Treatment:

Vault toilets of the pump-out type constructed at the site during FY 1965. Campground expansion to 20 units in 1967.

Present Status or Proposed Action:

No pollution problem.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Pope-Baldwin-Lake Tahoe Recreation Area
Eldorado National Forest, Eldorado County

January, 1968

Agriculture - Forest Service

Type of Discharge and Present Treatment:

Septic tanks discharging to subsurface tile fields, and vault-type toilets serve several areas of Eldorado National Forest in Lake Tahoe Basin.

Present Status or Proposed Action:

Construction of comfort stations with flush toilets and waterborne sewage service for other Forest Service facilities, with an area-wide interceptor sewer to serve all Eldorado National Forest installations in the Lake Tahoe Basin will be constructed with FY 1968-1969 funds. Interceptor will discharge to South Tahoe Public Utilities District treatment plant with effluent exported from the Basin.

United States Department of the Interior
Federal Water Pollution Control Administration Washington, D.C. 20240

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Hat Creek Campground
Cave Campground
Almanor Campground
Lassen National Forest, Lassen County

January, 1968

Department of Agriculture - Forest Service

Type of Discharge and Present Treatment:

15,000 gpd domestic sewage treated and discharged into tile drain fields or collected in concrete vault pit toilets.

Present Status or Proposed Action:

There is no pollution problem.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Bass Lake Recreation Area
Sierra National Forest, Madera County

January, 1968

Agriculture - Forest Service

Type of Discharge and Present Treatment:

10,000 gpd effluent from septic tank systems discharged to sub-surface tile fields.

Present Status or Proposed Action:

Upgrading of waste treatment and effluent disposal systems programmed for FY 1969. Forest Service anticipates joining community sewerage system when available.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Big Bear Recreation Area
Lytle Creek Recreation Area
San Bernardino National Forest

January, 1968

Department of Agriculture - Forest Service

Type of Discharge and Present Treatment:

Indeterminate flow. Forest Service have pump-out vaults. Area includes County Parks and special use permittees.

Present Status or Proposed Action:

No action proposed-no pollution problem according to California Region, U.S. Forest Service.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Kern Canyon Recreation Area
Sequoia National Forest
Tulare and Kern Counties

January, 1968

Department of Agriculture - Forest Service

Type of Discharge and Present Treatment:

Indeterminate flow. Forest Service have pump-out vaults. Area includes County Parks and special use permittees.

Present Status or Proposed Action:

No action proposed--no pollution problem according to the California Region, U.S. Forest Service.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Suisun Bay Reserve Fleet
Solano County

January, 1968

Department of Commerce - Maritime Administration

Type of Discharge and Present Treatment:

600 gpd domestic from headquarters vessel goes to macerator-chlorinator unit before discharge to Suisun Bay. Chemical toilets installed at various locations within reserve fleet.

Present Status or Proposed Action:

Investigating possible use of electric incinerator heads on tugs for water pollution control.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Fort Mohave Indian Reservation
San Bernadino County

January, 1968

Department of the Interior - Bureau of Indian Affair:

Type of Discharge and Present Treatment:

Tribal village area north of Needles, California, not sewered. Individual pit privies are in use.

Present Status or Proposed Action:

Under separate contracts, sewers are currently under construction and the entire system is being connected to the City of Needles, California, sewerage system.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Cedar Grove
Kings Canyon National Park, Fresno County
Interior - National Park Service

January, 1968

Type of Discharge and Present Treatment:

Sub-surface tile fields serving individual septic tank systems have been extended to prevent flow of effluent into south fork of Kings River.

Present Status or Proposed Action:

To serve new concessionaire facilities, and existting individual septic tank systems, construction of a sewage collection system and central waste treatment facility will be comp'eted in 1968. These facilities will prevent effluent from reaching Kings River.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Point Reyes National Seashore
Marin County

January, 1968

Department of Interior - National Park Service

Type of Discharge and Present Treatment:

Effluent from several septic tanks discharged into Bear Valley Creek and into sub-surface tile fields at the time of take-over of Bear Valley Ranch. By 1966, correction of discharge into creek had been made pending planned expansion of area.

Present Status or Proposed Action:

Construction of sewage collection system with treatment and disposal facilities planned in connection with Bear Valley headquarters and recreation facilities construction when funds are made available. Drakes Beach and Point Reyes National Seashore waste disposal facilities to prevent discharge to ocean waters were accomplished in FY 1967.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Yosemite National Park
Mariposa County

January, 1968

Department of the Interior - National Park Service

Type of Discharge and Present Treatment:

Major visitation areas are served by a modern sewage facility. A few remotes areas are served by adequate pit privies.

Present Status or Action Proposed:

No pollution identified at present.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Pinnacles National Monument
Paicines, San Benito County

January, 1968

Department of Interior - National Park Service

Type of Discharge and Present Treatment:

Wastes discharged to two septic tanks with soil absorption tile field.

Present Status or Action Proposed:

No pollution problem.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Lassen Volcanic National Park
Shasta County

January, 1968

Department of the Interior - National Park Service (Jan. 1968)

Type of Discharge and Present Treatment:

a. North Summit Campground. 500 gpd effluent from septic tank seeping into Summit Lake.

b. Manzanita Lake Campground. 500 gpd effluent from septic tank seeping into Manzanita Lake.

Present Status and Action Proposed:

a. Construction of additional comfort stations programmed for FY 1968.

b. Construction of lift station and sewer to connect to sewerage system away from the lake programmed for FY 1969.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Sequoia National Park
Tulare County

January, 1968

Department of the Interior - National Park Service

Type of Discharge and Present Treatment:

Varying amounts of domestic sewage with at least primary treatment and chlorination discharged via spray fields to the watershed of the Kaweah River from Ash Mountain headquarters, Giant Forest, and Lodgepole areas.

Present Status or Action Proposed:

Improvements to three present treatment facilities programmed for FY 1969-70.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Senator Wash Pumping Plant
Imperial County

January, 1968

Department of Interior - Bureau of Reclamation

Type of Discharge and Present Treatment:

Less than 100 gpd septic tank effluent discharged to leachline in earth fill at Senator Wash Dam; one operator contributing waste.

Present Status or Proposed Action:

Discharge to be connected to Squaw Lake Recreation Area treatment system during FY 1969.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Parker Dam Camp
San Bernardino County

January, 1968

Department of Interior - Bureau of Reclamation

Type of Discharge and Present Treatment:

Effluent from septic tank serving 250 persons discharged into defective subsurface absorption field near the Colorado River.

Present Status or Proposed Action:

Rehabilitation of disposal system programmed for FY 1969.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Sacramento National Wildlife Refuge
Willows, Glenn County

January, 1968

Department of Interior
- Bureau of Sport Fisheries & Wildlife

Type of Discharge and Present Treatment:

Effluent from two residences draining from septic tank into open ditch, entirely within Refuge.

Present Status or Propose Action:

Raw sewage lagoon for all wastes under design.

FWPCA now reviewing design.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

January, 1968

Modoc National Wildlife Refuge
Alturas, Modoc County

Department of Interior - Bureau of Sport Fisheries & Wildlife (Jan. 1968)

Type of Discharge and Present Treatment:

Effluent from two residential septic tanks discharged into inadequate disposal fields.

Present Status or Proposed Action:

Installation of gravel trench leach system programmed for FY 1969.

STATE OF CALIFORNIA

Fort Miley Veterans Hospital
San Francisco County

January, 1968

Veterans Administration - Hospitals

Type of Discharge and Present Action:

Combined storm-sanitary sewer lines discharging into the City of San Francisco sewer system.

Present Status or Proposed Action:

Engineering surveys for separate storm drain discharging into the Pacific Ocean are underway.

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Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Richmond Reserve Shipyard
Contra Costa County

January, 1968

General Services Administration

Scheduled for deactivation and disposal by GSA. City of Richmond, California expected to complete purchase negotiations by March 31, 1968.

United States Department of the Interior
eral Water Pollution Control Administration Washington, D.C. 20240

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

U.S. Post Office and Courthouse
Los Angeles, Los Angeles County

January, 1968

General Services Administration

Type of Discharge and Present Treatment:

73,000 gpd domestic sewage discharged to the City of Los Angeles sewage system. 200 gpd for 100 days per year cooling water discharged into a City of Los Angeles storm drain.

Present Status or Proposed Action:

No pollution problem.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

U.S. Penitentiary, Alcatraz
San Francisco Bay

January, 1968

General Services Administration

Type of Discharge and Present Treatment:

None. Deactivated.

United States Department of the Interior
eral Water Pollution Control Administration Washington, D.C. 20240

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Oakland Harbor Light Station
Oakland, Alameda County

January, 1968

Department of Transportation - Coast Guard

Type of Discharge and Present Treatment:

No discharge.

Present Status or Proposed Action:

Station converted to automatic unmanned operation, January 1967, eliminating pollution problem.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

East Brothers Island Light Station
Contra Costa County

January, 1968

Department of Transportation - Coast Guard

Type of Discharge and Present Treatment:

Three man station. Untreated waste discharged into San Francisco Bay.

Present Status or Proposed Action:

Conversion to automatic unmanned operation programmed for FY 1968. Funds allocated but current construction freeze may delay installation until November 1968.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Point Bonita Light Station
Marin County

Department of Transportation - Coast Guard

January, 1968

Type of Discharge and Present Treatment:

500 gpd domestic sewage flows to a concrete septic tank with tile field.

Present Status or Proposed Action:

No pollution problem.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Point Blunt Light Station
Angel Island, San Francisco Bay

January, 1968

Department of Transportation - Coast Guard

Type of Discharge and Present Treatment:

Effluent from one septic tank discharged to tile field.

Present Status or Proposed Action:

No pollution problem.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Lime Point Light Station
San Francisco Bay

January, 1968

Department of Transportation - Coast Guard

Type of Discharge and Present Treatment:

None

Present Status or Proposed Action:

Station converted to automatic unmanned operation in July 1962, eliminating pollution problem.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Mile Rock Light Station
San Francisco County

January, 1968

Department of Transportation - Coast Guard

Type of Discharge and Present Treatment:

None

Present Status or Proposed Action:

Conversion of the station to automatic unmanned operation completed, November 1966.

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Federal Water Pollution Control Administration Washington, D.C. 20240

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Alcatraz Light Station
San Francisco Bay

January, 1968

Department of Transportation - Coast Guard

Type of Discharge and Present Treatment:

Automatic unmanned station, no discharge.

Present Status or Proposed Action:

No pollution problem.

Waste Water Disposal at Federal Installations in the United States

STATE OF CALIFORNIA

Fort Point Lifeboat Station
San Francisco County

January, 1968

Department of Transporation - Coast Guard

Type of Discharge and Present Treatment:

Domestic sanitary sewage discharged to the Presidio sewage collection system. Mess wastes discharged untreated into San Francisco Bay.

Present Status or Proposed Action:

Connection of mess wastes to the Presidio sanitary sewer system completed in FY 1966.